

WHAT WE CLAIM:

1. A machine-readable medium having a set of executable instructions for causing a processor to perform a method of displaying position information of a mobile computing device, said processor being operatively coupled to the mobile computing device, said mobile computing device being operatively coupled to at least one machine-readable memory, a display, a GPS device, a communication interface, and a timing element, said method comprising the steps of:
 - periodically receiving position information of the mobile computing device using said GPS device, said position information describing a position of said mobile communication device;
 - associating each periodically received position information with a time data, said time data indicating a time at which each position information was received;
 - storing in said machine-readable memory the periodically received position information into said machine-readable memory;
 - displaying a graphical map;
 - displaying on said graphical map a graphical position icon indicating a position described by one of said periodically received position information; and
 - displaying the time data associated with the position information describing the position indicated by said graphical position icon.
2. The machine-readable medium of claim 1, wherein said processor is operatively coupled to said machine-readable medium via a wireless communications network.
3. The machine-readable medium of claim 1, wherein said mobile computing device is a cellular telephone.
4. The machine-readable medium of claim 1, wherein said method further comprises the steps of:
 - retrieving from said machine-readable memory a point-of-interest location, said point-of-interest location being located within a predetermined proximity of the position indicated by said graphical position icon; and
 - displaying on said graphical map a point-of-interest icon indicating the point-of-interest location on said graphical map.
5. The machine-readable medium of claim 4, wherein said method further comprises a step of calculating a distance between said point of interest location and the position indicated by said graphical position icon.

6. The machine-readable medium of claim 1, wherein said method further comprises a steps of calculating a traveling speed of said mobile computing device using the periodically received position information and the associated time data.

5 7. The machine-readable medium of claim 1, wherein said method further comprises the steps of:

recording in said machine-readable memory each communication activity of said communication interface; and

10 associating time data with each communication activity recorded.

8. The machine-readable medium of claim 7, wherein said communication activity is one of a dialed telephone call, a missed telephone call, a received telephone call, an e-mail message reception or transmission, a voice mail recording, an instant text message reception or transmission, and a page reception or transmission.

15 9. The machine-readable medium of claim 7, wherein said method further comprises a step of displaying at least one recorded communication activity.

20 10. The machine-readable medium of claim 9, wherein said method further comprises a step of reproducing communication content data associated with the displayed recorded communication activity, wherein said communication content data is one of text data and sound data.

25 11. The machine-readable readable medium of claim 9, wherein said method further comprises a step of displaying a corresponding received position information, said corresponding received position information indicating a position of said mobile computing device during which said displayed communication activity occurred.

30 12. The machine-readable medium of claim 7, wherein said method further comprises a step of associating a received position information with each communication activity.

13. The machine-readable medium of claim 12, wherein said method further comprises the steps of:

displaying at least one of said recorded communication activity;

35 displaying the time data associated to said recorded communication activity; and

displaying the position information associated to said recorded communication activity.

14. The machine-readable medium of claim 1, wherein said method further comprises the steps of:

receiving a time range input signal indicating a period of time, said period of time defined by a starting time and an ending time; and

5 displaying on said graphical map a plurality of position history icons, each of said position history icon indicating a position described by one of said periodically received position information that were received during the period of time specified by the time range input signal.

10 15. The machine-readable medium of claim 7, wherein said method further comprises the steps of:

receiving a time range input signal indicating a period of time, said period of time defined by a starting time and an ending time;

15 displaying a plurality of recorded communication activity, wherein each of said recorded communication activity occurred during the period of time specified by the time range input signal.

16. The machine-readable medium of claim 15, wherein said method further comprises the steps of:

20 receiving a designation input signal, said designation input signal designating one of said displayed communication activity; and

reproducing communication content data associated with the displayed recorded communication activity, wherein said communication content data is one of text data and sound data.

25 17. The machine-readable medium of claim 1, wherein said method further comprises a step of displaying a graphical calendar, said graphical calendar including a plurality of sequential time slot locations indicating different sequential periods of time.

30 18. The machine-readable medium of claim 17, wherein the denomination of said sequential periods of time is one of year, month, week, day, hour, and minute.

19. The machine-readable medium of claim 17, further comprising the steps of:

receiving a time slot designation signal designating a time slot displayed on said graphical calendar;

35 displaying on said graphical map a plurality of position history icons, each of said position history icon indicating a position described by one of said periodically received position information that were received during the time period indicated by the designated time slot.

20. The machine-readable medium of claim 17, further comprising the steps of:
recording in said machine-readable memory each communication activity of said communication interface;
associating time data with each communication activity recorded;
5 receiving a time slot designation signal designating a time slot displayed on said graphical calendar;
displaying a plurality of recorded communication activity, wherein each of said recorded communication activity occurred during the period of time specified by the designated time slot.
- 10 21. The machine-readable medium of claim 1, wherein said method further comprises a steps of periodically reading data stored on said machine-readable memory and writing the read data to a second machine-readable memory, said second machine-readable memory being periodically operatively coupled to said mobile computing device.